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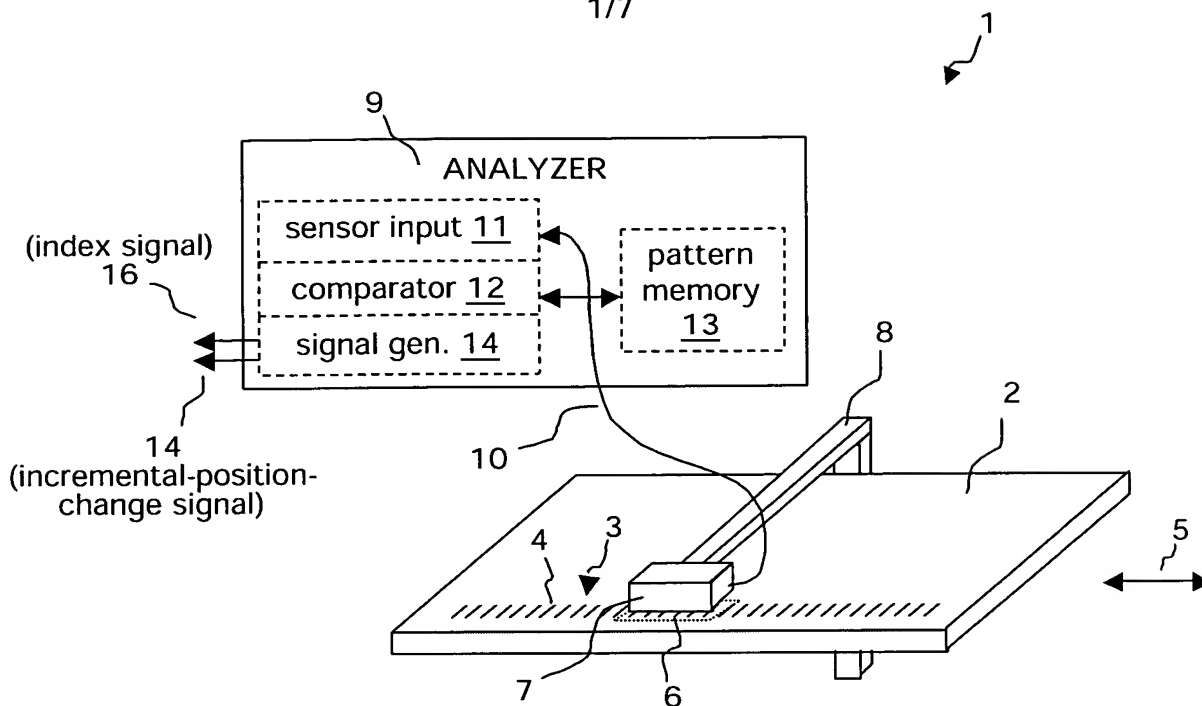


Fig. 1

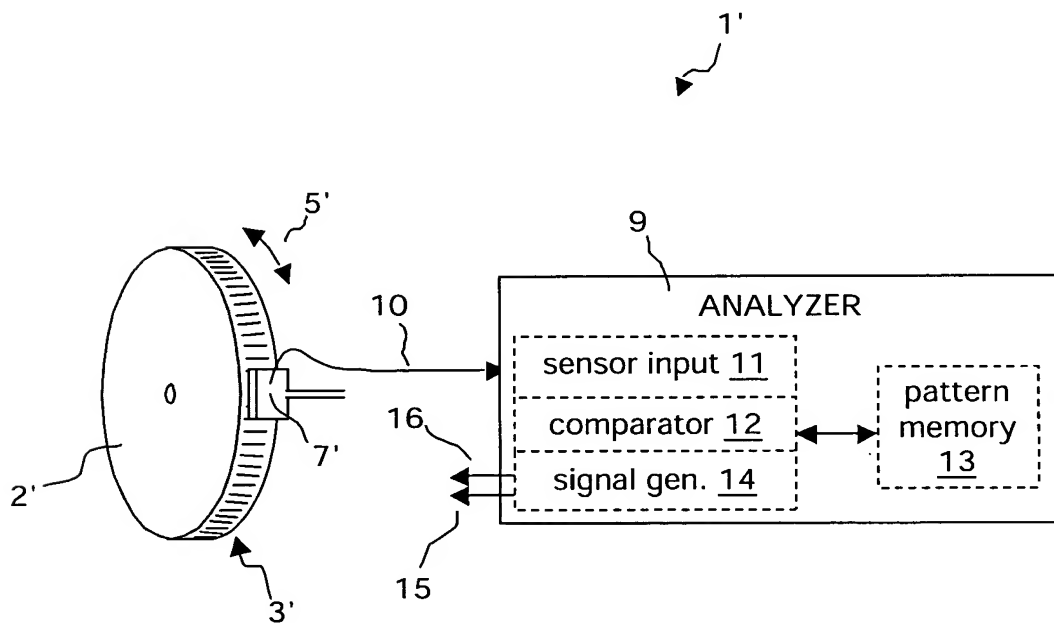


Fig. 2

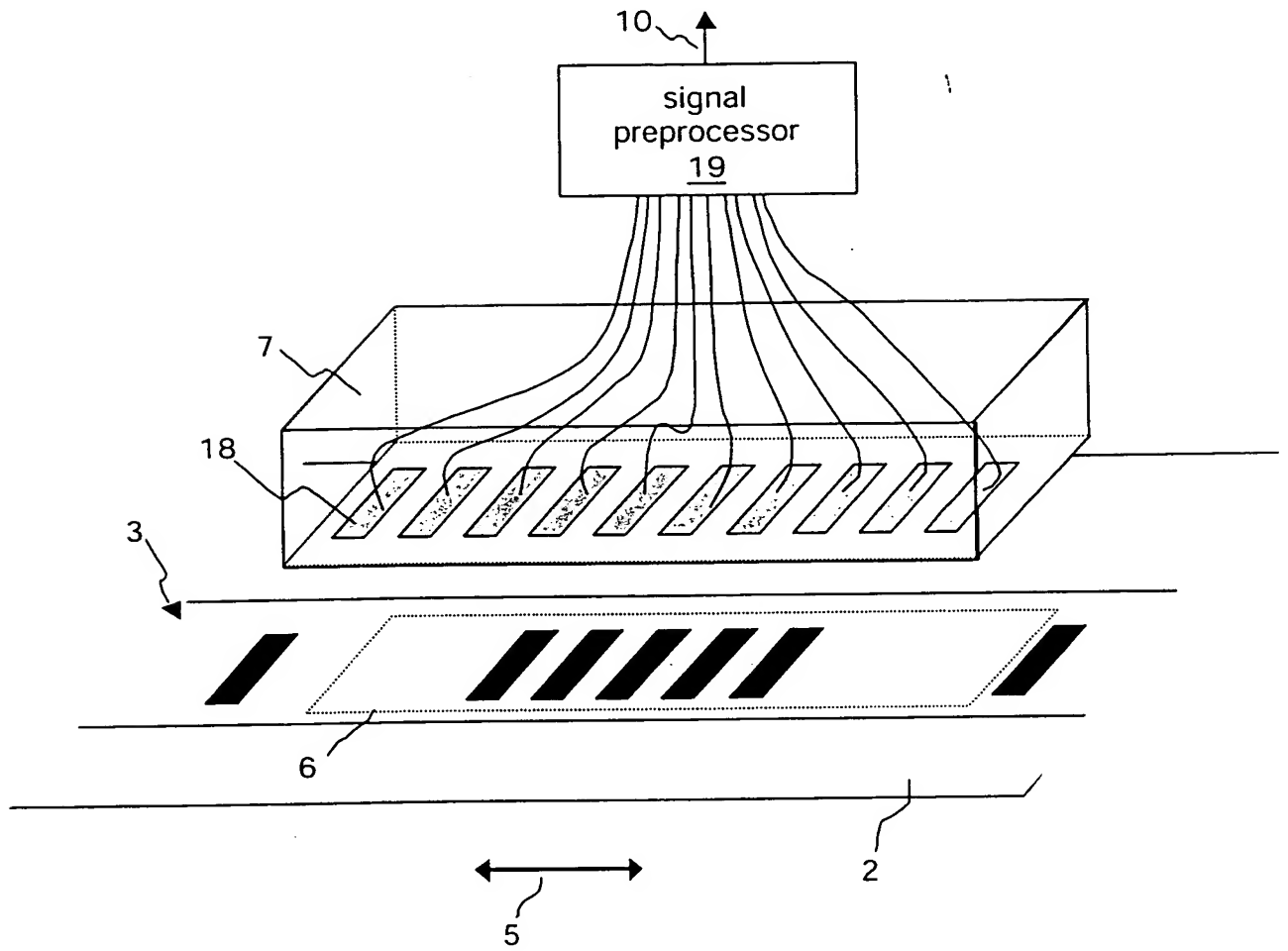


Fig. 3

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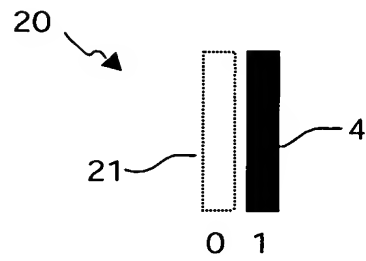


Fig. 4a

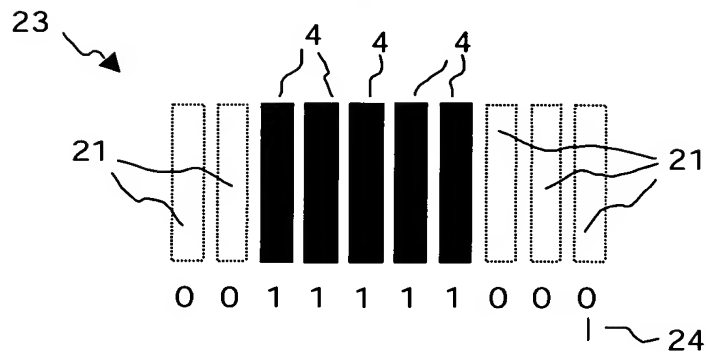


Fig. 4b

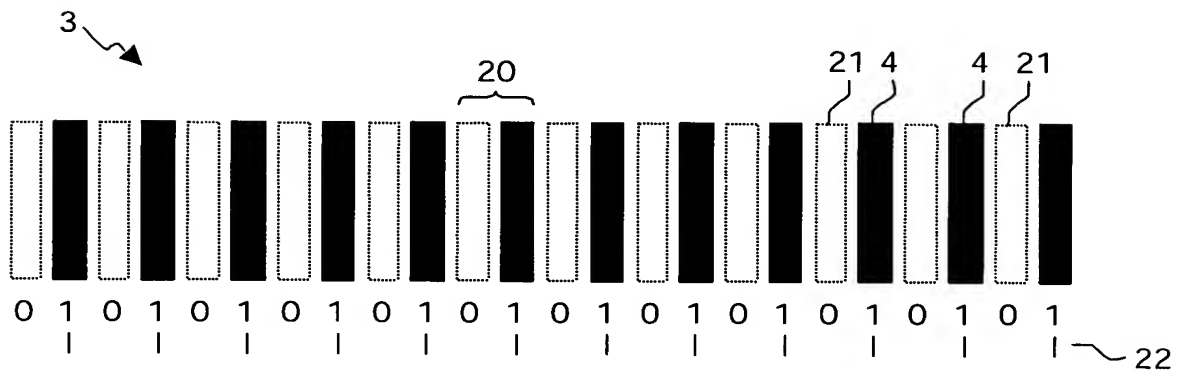


Fig. 4c

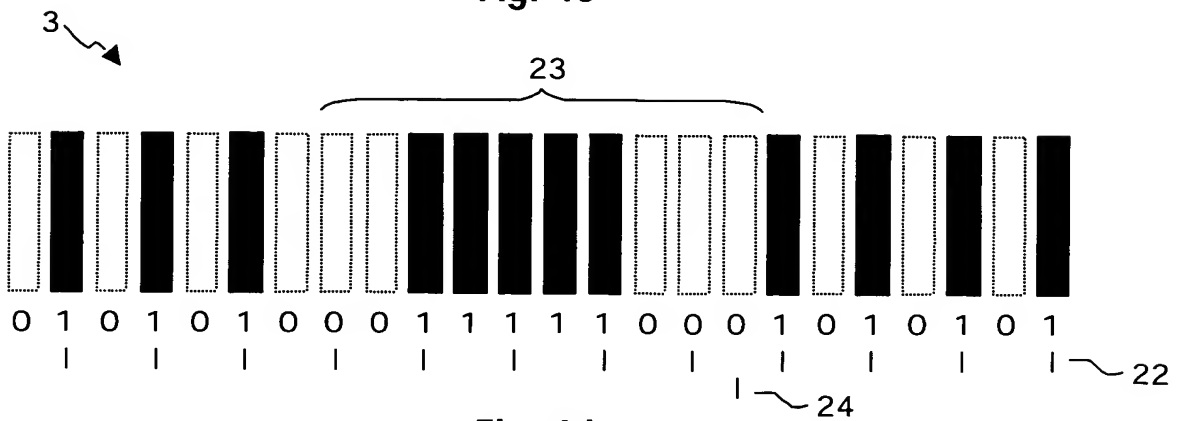


Fig. 4d

	viewed pattern		incremental signal	index signal
P1		1010101010	0	0
P2		0101010101	1	0
P3		0010101010	0	0
P4		0001010101	1	0
P5		1000101010	0	0
P6		1100010101	1	0
P7		1110001010	0	0
P8		1111000101	1	0
P9		1111100010	0	0
P10		0111110001	1	0
P11		0011111000	0	1
P12		0001111100	1	0
P13		1000111110	0	0
P14		0100011111	1	0
P15		1010001111	0	0
P16		0101000111	1	0
P17		1010100011	0	0
P18		0101010001	1	0
P19		1010101000	0	0
P20		0101010100	1	0
P1		1010101010	0	0

Fig. 5

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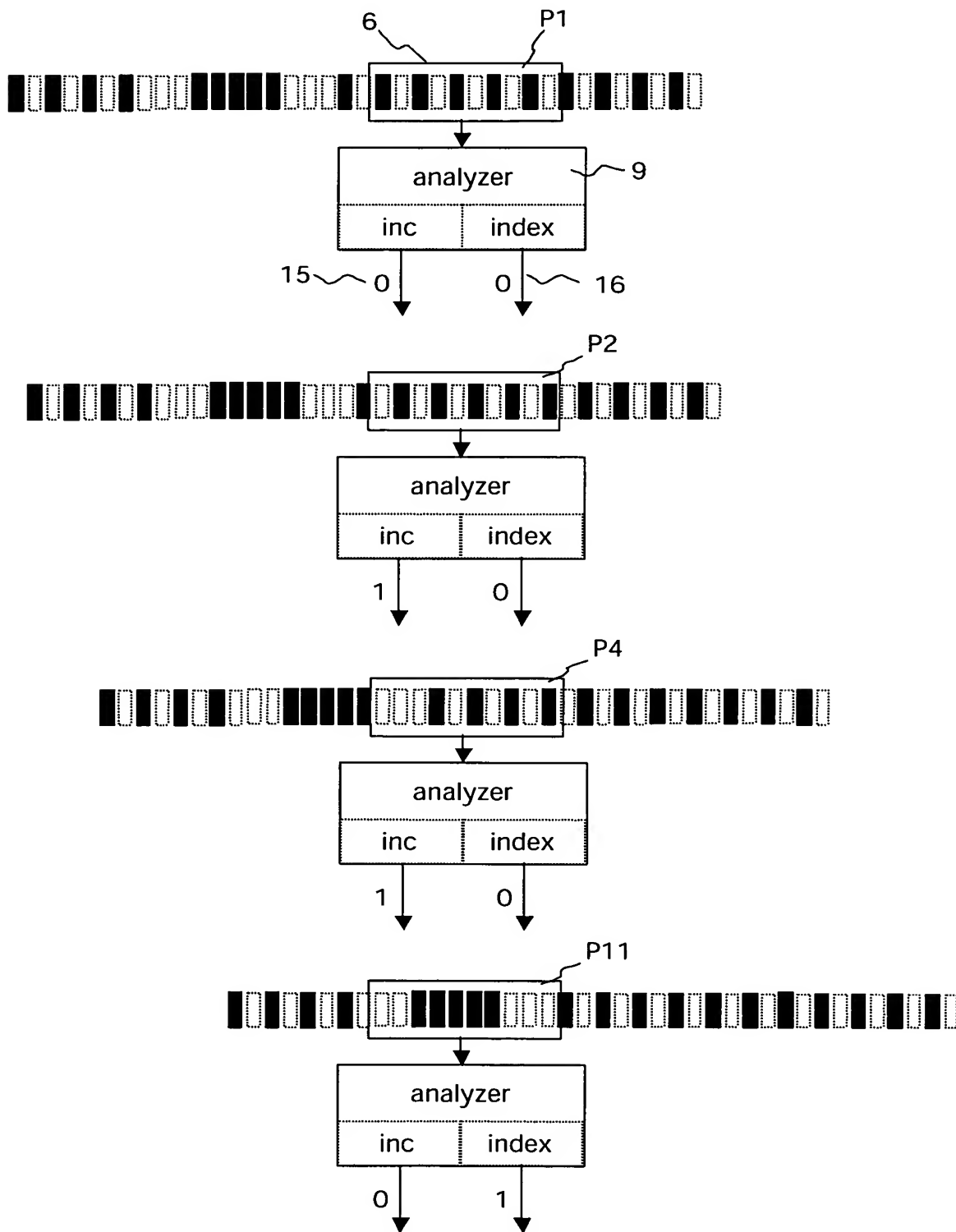
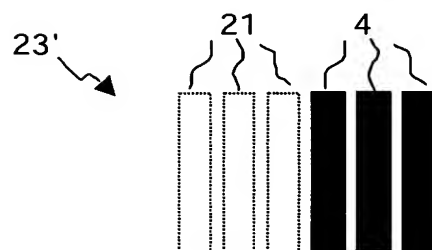


Fig. 6



	viewed pattern	incremental signal	index signal
R1		010101	1
R2		101010	0
R3		110101	1
R4		111010	0
R5		011101	1
R6		001110	0
R7		000111	1
R8		100011	0
R9		010001	1
R10		101000	0
R11		010100	1
R12		101010	0
R1		010101	1

Fig. 7

